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EIC 3600

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TO: Patricia Volpe
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Tuesday, October 05, 2004

Case Serial Number: 10/657060

From: Etelka Griffin
Location: EIC 3600
PK5-Suite 804
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Etelka.griffin@uspto.gov

Search Notes

LITIGATION SEARCH

#6546830

Source: [Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant Patents](#) [\[i\]](#)
Terms: [patno=6546830](#) ([Edit Search](#))

951765 (09) 6546830 April 15, 2003

UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6546830

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[Link to Claims Section](#)

April 15, 2003

Transmission device of four-wheel drive vehicle

INVENTOR: Kanazawa, Kazuo - Tokyo, Japan (JP)

APPL-NO: 951765 (09)

FILED-DATE: September 13, 2001

GRANTED-DATE: April 15, 2003

ASSIGNEE-AT-ISSUE: Fuji Jukogyo Kabushiki Kaisha, Tokyo, Japan (JP), 03

ASSIGNEE-AFTER-ISSUE: January 11, 2002 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS) ., FUJI JUKOGYO KABUSHIKI KAISHA 7- 2, NISHISHINJUKU 1-CHOME, SHINJUKU-KU TOKYO J APAN, Reel and Frame Number: 012472/0357

CORE TERMS: shaft, gear, drive, input, rear, driven, counter, driving force, reduction, transmitted ...

ENGLISH-ABST:

A transfer drive gear is provided at the rear end of a hollow counter shaft disposed under an input shaft. A reduction driven gear is provided at the rear end of a front drive shaft inserted in the counter shaft. The transfer drive gear and the reduction driven gear are engaged with a transfer driven gear which is integrally formed with an intermediate output shaft and a reduction drive gear. The rear end side of the intermediate output shaft is coupled with the front end side of a rear drive shaft through a torque coupling device, so that an FF based on the four-wheel drive vehicle can be formed.

Source: [Legal > Area of Law - By Topic > Patent Law > Patents > U.S. Patents > Utility, Design and Plant Patents](#) [\[i\]](#)

Terms: [patno=6546830](#) ([Edit Search](#))

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Segments: Abst, Assignee, Date, Granted-date, Inventor

Date/Time: Tuesday, October 5, 2004 - 2:58 PM EDT

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Patent Number :
US2002066324 A1 20020606 [US20020066324]

Patent Number 2 :
US6546830 B2 20030415 [US6546830]

Title :
(A1) Transmission device of four-wheel drive vehicle

Patent Assignee :
(A1) FUJI HEAVY IND LTD (JP)

Patent Assignee :
Fuji Jukogyo Kabushiki Kaisha, Tokyo (JP)

Patent Assignee 2 :
(B2) FUJI HEAVY IND LTD (JP)

Inventor(s) :
(A1) KANAZAWA KAZUO (JP)

Application Nbr :
US95176501 20010913 [2001US-0951765]

Priority Details :
JP2000280602 20000914 [2000JP-0280602]

Intl Patent Class :
(A1) F16H-037/00 F16H-037/16

EPO ECLA Class :
B60K-017/344
B60K-017/35B1
B60K-023/08B

US Patent Class :
CROSS-REFERENCE (X) : 074333000

Document Type :
Corresponding document

Citations :
US4208923; US5123293; US5640882; US5947218; US6044720; US6332371;
JP7-167257; JP362178429

Publication Stage :
(A1) Utility Patent Application published on or after January 2, 2001

Publication Stage 2 :
(B2) U.S. Patent (with pre-grant pub.) after Jan. 2, 2001

Abstract :
A transfer drive gear is provided at the rear end of a hollow counter shaft disposed under an input shaft. A reduction driven gear is provided at the rear end of a front drive shaft inserted in the counter shaft. The transfer drive gear and the reduction driven gear are engaged with a transfer driven gear which is integrally formed with an intermediate output shaft and a reduction drive gear. The rear end side of the intermediate output shaft is coupled with the front end side of a rear drive shaft through a torque coupling device, so that an FF based on the four-wheel drive vehicle can be formed.

Update Code :
2002-25

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Patent Number :
US2002066324 A1 20020606 [US20020066324]

US6546830 B2 20030415 [US6546830]
Application Number :
US95176501 20010913 [2001US-0951765]
Action Taken :
20031216 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20030908
Update Code :
2004-03

1 / 1 CRXX - ©CLAIMS/RRX
Patent Number :
6,546,830 A 20030415 [US6546830]
Patent Assignee :
Fuji Jukogyo K K JP
Actions :
20030908 REISSUE REQUESTED
ISSUE DATE OF O.G.: 20031216
REISSUE REQUEST NUMBER: 10/657060
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 3681

Reissue Patent Number:

1 / 1 INPADOC - ©INPADOC
Patent Number :
US 6546830 BB 20030415 [US6546830]
Title :
TRANSMISSION DEVICE OF FOUR-WHEEL DRIVE VEHICLE
Inventor(s) :
KANAZAWA KAZUO [JP]
Patent Assignee (Words) :
FUJI HEAVY IND LTD [JP]
Application Details :
US 951765/01-A 20010913 [2001US-0951765]
Priority Details :
JP 2000280602/00-A 20000914 [2000JP-0280602]
Intl. Patent Class. :
F16H-037/06; F16H-003/08

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Patent Number :
US2002066324 A1 20020606 [US20020066324]
US6546830 B2 20030415 [US6546830]
Application Number :
US95176501 20010913 [2001US-0951765]
Action Taken :
20031216 US/RF-A
REISSUE APPLICATION FILED
EFFECTIVE DATE: 20030908
Update Code :
2004-03